

Sharda International Africa (Pty) Ltd

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011, Tel: 087 822 2397

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

(Co. Reg. No. 2010/002268/07)

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SAFETY DATA SHEET "SPYRO 915 EC"

1. IDENTIFICATION OF PRODUCT AND COMPANY

Name of Product: "Spyro 915 EC"

Active Ingredient: S-Metalochlor 915 EC

Product Use: Herbicides

Registration holder: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Contact Tel. No.: 031-764 3011

Poison Centres: UNITAS Hospital: 0800-111-9900
Tygerberg Hospital: 021-931-6129
Netcare 911: 082911

2. HAZARDS IDENTIFICATION

May cause sensitization by skin contact.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	EC-No. (REACH Regis- tration Number)	Symbol(s)	R-phrased(s)	Concentration
S-metolachlor	87392-12-9		Xi, N		984.89 g/l
benoxacor	98730-04-2		Xi, N		45 g/l
Benzenesulfonic acid, C10-13- (linear)alkyl derivs., calcium salt	List Number : 932-231-6				63.122 g/l
2-ethylhexan-1-ol	104-76-7				

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Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxyl 99734-09-5 R52/5371.18 g/l	99734-09-5				71.18 g/l
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4. FIRST AID MEASURES

General advice

Have the product container, label or Material Safety Data Sheet with you when calling the Sharda International Africa emergency number, a poison control center or physician, or going for treatment.

Inhalation

Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest.

Call a physician or poison control Centre immediately.

Skin contact

Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

Medical advice

There is no specific antidote available. Treat symptomatically. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires Alcohol-resistant

Foam or Water spray

Extinguishing media which shall not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during firefighting:

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to health.

Special protective equipment for fire-fighters:

Wear full protective clothing and self-contained breathing apparatus.

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Further information:

Do not allow run-off from firefighting to enter drains or water courses.

Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Refer to protective measures listed in sections 7 and 8.

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national Regulations (see section 13).

Additional advice:

If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING

Advice on safe handling

No special protective measures against fire required.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

For personal protection see section 8.

STORAGE

Requirements for storage areas and containers

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Exposure limit(s)	Type of exposure limit
S-metolachlor	10 mg/m ³	8 h TWA
benoxacor	1 mg/m ³	8 h TWA

ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapors are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

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Protective measures:

The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection:

Eye protection is not usually required.
Follow any site specific eye protection policies.

Eye protection:

No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

Skin and body protection:

Assess the exposure and select chemical resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material.
Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots, etc.)

Wear as appropriate:

impervious protective suit

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Form:	liquid
Colour light:	brown to dark brown red
pH:	4 - 8 at 1 % w/v
Flash point:	> 70 °C
Density:	1.115 g/cm ³ at 20 °C

10. STABILITY AND REACTIVITY

Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.

Hazardous reactions

None known.
Hazardous polymerization does not occur.
Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 Rat, 5000 mg/kg
GHS-
Classification
None
The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity: LC50 Rat, > 3.07 mg/l, 4 h
GHS-
Classification
None
The toxicological data has been taken from products of

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similar composition.

Acute dermal toxicity:	LD50 Rabbit, > 2000 mg/kg GHS- Classification None The toxicological data has been taken from products of similar composition.
Skin irritation:	Rabbit: Non-irritating GHS- Classification None The toxicological data has been taken from products of similar composition.
Eye irritation:	Rabbit: Non-irritating GHS- Classification GHS- Classification None None The toxicological data has been taken from products of similar composition.
Sensitisation:	guinea pig: A skin sensitizer in animal tests. GHS- Classification Category 1 The toxicological data has been taken from products of similar composition.
Long term toxicity	
S-metolachlor:	Did not show carcinogenic, teratogenic or mutagenic effects in Animal experiments.
Benoxacor:	Did not show carcinogenic, teratogenic or mutagenic effects in Animal experiments.

12. ECOLOGICAL INFORMATION

Stability in water

S-metolachlor:	Degradation half-life: 53 - 147 d S-metolachlor is not persistent in water.
Benoxacor:	Degradation half-life: 2 - 3 d at 20 °C Benoxacor is not persistent in water.

Stability in soil

S-metolachlor:	Degradation half-life: 12 - 46 d S-metolachlor is not persistent in soil.
Benoxacor:	Degradation half-life: 0.9 - 5.3 d Benoxacor is not persistent in soil.

Mobility

S-metolachlor:	S-metolachlor has medium mobility in soil.
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Benoxacor: Benoxacor has medium mobility in soil.

Bioaccumulation

S-metolachlor: S-Metolachlor does not bioaccumulate.

Benoxacor: Benoxacor does not bioaccumulate.

ECOTOXICITY EFFECTS

Toxicity to fish: LC50 Oncorhynchus mykiss (rainbow trout), 7.6 mg/l , 96 h
GHS-Classification
Category 2
Based on test results obtained with similar product.

Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia magna Straus, 19.8 mg/l , 48 h
GHS-Classification
Category 3
Based on test results obtained with similar product.

Toxicity to algae: EbC50 Pseudokirchneriella subcapitata (green algae), 0.025 mg/l , 72 h
ErC50 Pseudokirchneriella subcapitata (green algae), 0.11 mg/l , 72 h
GHS-Classification
Category 1
Based on test results obtained with similar product.

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

Land transport

ADR/ RID:

UN-Number: 3082

Class: 9

Labels: 9

Packaging group : III

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
(S-METOLACHLOR)

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Environmentally hazardous: Environmentally hazardous

Sea transport

IMDG:

UN-Number: 3082

Class: 9

Labels: 9

Packaging group: III

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
(S-METOLACHLOR)

Marine pollutant : Marine pollutant

Air transport

IATA-DGR

UN-Number: 3082

Class: 9

Labels: 9

Packaging group: III

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.
(S-METOLACHLOR)

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- S-metolachlor
- benoxacor